

O I P E

Please type a plus sign (+) inside this box --> ☐

FEB 01 2003

PATENT &amp; TRADEMARK OFFICE

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

Complete if Known

RECEIVED

Application Number 10/001,861

Filing Date

November 19, 2001

First Named Inventor

Pohjola

Group Art Unit

Examiner Name

Attorney Docket Number

0147US-Oplayo

Technology Center 2600

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where relevant passages or relevant figures appear
		Number	Kind Code (If Known)			
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appear	T6
		Office <sup>3</sup>	Number	Kind Code (If Known)				
	BA							
	BB							
	BC							
	BD							
	BE							
	BF							

## **NON PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers, publisher, city and/or country where published.	T6
ChL	CA	J.B. McQueen, "Some Methods of classification and analysis of multivariate ob-servations", Proceedings of 5th Berkeley Symp. Mathemat. Statist. Probability 1, pp. 281-296, University of California, Berkeley, 1967.	
ChL	CB	Y. Linde, A. Buzo, and R.M. Gray, "An algorithm for vector quantizer design", IEEE Transactions on Communications, 28(1), pp. 84-95, January 1980.	
	CC		
	CD		

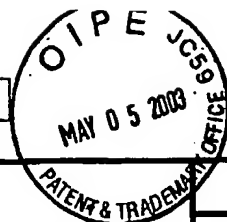
Examiner  
SignatureDate  
Considered

10-30-04

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → +



Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Sheet		of		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/001,861</td> </tr> <tr> <td>Filing Date</td> <td>November 19, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Teemu Pohjola</td> </tr> <tr> <td>Group Art Unit</td> <td>2621</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>0147US-Oplayo</td> </tr> </table>	Application Number	10/001,861	Filing Date	November 19, 2001	First Named Inventor	Teemu Pohjola	Group Art Unit	2621	Examiner Name		Attorney Docket Number	0147US-Oplayo
Application Number	10/001,861															
Filing Date	November 19, 2001															
First Named Inventor	Teemu Pohjola															
Group Art Unit	2621															
Examiner Name																
Attorney Docket Number	0147US-Oplayo															

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where relevant passages or relevant figures appear
		Number	Kind Code (If Known)			
CML	AA	5,477,221		Chang et al.	12-19-1995	
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					

RECEIVED

MAY 09 2003

Technology Center 2600

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appear	T6
		Office <sup>3</sup>	Number				
CML	BA		WO 97/36,376	Vxtreme, Inc.	10-02-1997		
CML	BB		WO 93/23,956	Valtion Teknillinen Tutkimuskeskus	11-25-1993		
	BC						
	BD						
	BE						
	BF						

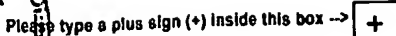
### NON PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers), publisher, city and/or country where published.	T6
	CA		
	CB		
	CC		
	CD		

Examiner Signature		Date Considered	10-30-04
-----------------------	--	--------------------	----------

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application Number	10/001,861
Filing Date	November 19, 2001
First Named Inventor	Pohjola
Group Art Unit	2621
Examiner Name	TRAN, PHUOC
Attorney Docket Number	0147US-Oplayo

Sheet 1

of 2

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.:	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appear
		Office3	Number Kind Code (if Known)			
<i>Che</i>			WO 93 23956	VIRTAMO, Jorma	11-25-1993	

NON PATENT DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers, publisher, city and/or country where published.	T6
Cml	-	BARNES C F ET AL, "Classified variable rate residual vector quantization applied to image subband coding", Data Compression Conference, 1993. DCC '93. Snowbird, UT, USA March 30-April 2, 1993, pp 272-281, Los Alamitos, CA, USA, IEEE Computing Society, ISBN: 0-8186-3392-1	
CW	-	JIANDONG SHEN ET AL, "Vector quantization of affine motion models", Image Processing, 1999. ICIP 99 Proceedings. 1999 International Conference of Kobe, Japan. October 24-28, 1999, Piscataway, NJ, USA, ISBN 0-7803-5467-2	
Cml	-	HEESUNG KWON ET AL, "Very low bit rate video codec using variable blocksize entropy-constrained residual vector quantization", Circuits and systems, 1997. ISCAS'97, Proceedings of 1997 IEEE International Symposium on hong Kong, June 9-12, 1997, New York, New York, USA. ISBN:0-7803-3583-X	
Cml	-	CHOK-KI CHAN ET AL, "Progressive image transmission using adaptive multistage vector quantization", Speech, Image Processing and Neural Networks, 1994. Proceedings, ISSIPNN '94, 1994 International Symposium on Hong Kong, April 13-16, 1994, New York, NY, USA ISBN: 0-7803-1865-X	

**Examiner  
Signature**

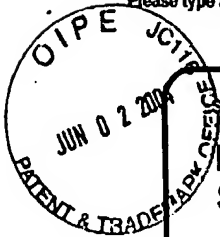
Date Considered

10-30-04

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → +



Substitute for form 1449A/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/001,861
		Filing Date	November 19, 2001
		First Named Inventor	Pohjola
		Group Art Unit	2621
		Examiner Name	TRAN, PHUOC
Sheet 2	of 2	Attorney Docket Number	0147US-Oplayo

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where relevant passages or relevant figures appear
		Number	Kind Code (If Known)			
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					

RECEIVED

JUN 08 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appear	T6
		Office <sup>3</sup>	Number	Kind Code (If Known)				
	BA							
	BB							
	BC							
	BD							
	BE							
	BF							

NON PATENT DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers), publisher, city and/or country where published.	T6
Ch	CA	VISHWANATH M, "Algorithms and architectures for hierarchical compression of video", Application Specific Array Processors, 1994. Proceedings. International Conference on San Francisco, CA USA, August 22-24, 1994, Los Alamitos, CA, USA, ISBN: 0-8186-6517-3	
	CB		
	CC		
	CD		

Examiner Signature	Date Considered 10-30-04
--------------------	--------------------------

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



Please type plus sign (+) inside this box → +

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>(Use as many sheets as necessary)</small>		<i>Complete if Known</i>	
		Application Number	10/001,861
		Filing Date	November 19, 2001
		First Named Inventor	Teemu Pohjola
		Group Art Unit	2621
		Examiner Name	TRAN, PHUOC
Sheet 1	of 1	Attorney Docket Number	0147US-Oplayo

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where relevant passages or relevant figures appear
		Number	Kind Code (if Known)			
Chd	AA	5,692,012		Jorma Virtamo; Seppo Valli	11-25-1997	
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					

RECEIVED

AUG 0 9 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.*	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appear	T6
		Office3	Number	Kind Code (If Known)				
	BA							
	BB							
	BC							
	BD							
	BE							
	BF							

NON PATENT DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers), publisher, city and/or country where published.	T6
Chd	CA	BARNES CF ET AL, "Advances in Residual Vector Quantization: A Review", IEEE Transactions on Image Processing, February 1996, pages 226-262, vol. 5, no .2, IEEE INC., New York, US.	
Chd	CB	MATTAPARTHI R ET AL, "Performance Evaluation Of Progressive Image Transmission Techniques", IEEE Proceedings of the International Conference on EC3- Energy, Computer, Communication and Control Systems (TENCON), August 28-30, 1991, pages 405-409, New Delhi, ISBN 0-7803-0539-6	
Chd	CC	FOSTER J ET AL, "System Prototype Design for a 16-Kbps Adaptive Vector Quantization Waveform Coder, System Theory, 1990, Twenty-Second Southeastern Symposium, Cookeville, TN, March 11-13, 1990, pages 380-383, Los Alamitos, CA, USA IEEE Computer Society, US.	
	CD		

Examiner Signature	Date Considered	10-30-04
--------------------	-----------------	----------

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.